

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,313,087 B2
APPLICATION NO. : 10/600184
DATED : December 25, 2007
INVENTOR(S) : Lingaraj S. Patil et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23, line 28, insert attached Appendix which was omitted from the patent.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The MIB for SPVxC Call Redirection Information.

pnniSpvxSrcRedirectionTable OBJECT-TYPE

SYNTAX SEQUENCE OF PnniSpvxSrcRedirectionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“This table contains information about Redirection SPVCs (Smart Permanent Virtual Circuits) that have their source on this switch. This table is similar to the pnniSpvcSrcTable, but the important difference is that it stores 2 sets of SPVC parameters: primary and secondary. When configured, one set of parameters will be used to set up the SPVC, while the other set will be used in the event of a switchover.”

::= { q2931Group 23 }

pnniSpvxSrcRedirectionEntry OBJECT-TYPE

SYNTAX PnniSpvxSrcRedirectionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“A table entry containing SPVCC resilient destination info.”

INDEX { pnniSpvxSrcRedirectionIndex }

::= { pnniSpvxSrcRedirectionTable 1 }

PnniSpvxSrcRedirectionEntry ::= SEQUENCE {

pnniSpvxSrcRedirectionIndex	Integer32,
pnniSpvxSrcRedirectionCalledAtmAddr	NsapAddr,
pnniSpvxSrcRedirectionVPVCSel	INTEGER,
pnniSpvxSrcRedirectionCalledVpi	Integer32,
pnniSpvxSrcRedirectionCalledVci	Integer32,
pnniSpvxSrcRedirectionFwdUpcKey	Integer32,
pnniSpvxSrcRedirectionBckUpcKey	Integer32,
pnniSpvxSrcRedirectionFwdQosClass	INTEGER,
pnniSpvxSrcRedirectionBckQosClass	INTEGER,
pnniSpvxSrcRedirectionName	OCTET STRING,

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```

pnniSpvxSrcRedirectionQosIndex      Integer32,
pnniSpvxSrcRedirectionRerouteStatus  INTEGER,
pnniSpvxSrcRedirectionBackoffStatus  INTEGER,
pnniSpvxSrcRedirectionDtlTag         Integer32,
pnniSpvxSrcRedirectionAutoDtlStatus  INTEGER
}

```

```

pnniSpvxSrcRedirectionIndex OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        "The value of this object uniquely identifies the
        SPVCC Call Redirection information."
    ::= { pnniSpvxSrcRedirectionEntry 1 }

```

```

pnniSpvxSrcRedirectionCalledAtmAddr OBJECT-TYPE
    SYNTAX      NsapAddr
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        "The ATM address of the distant end NI (remote
        switch) used for Call Redirection."
    ::= { pnniSpvxSrcRedirectionEntry 2 }

```

```

pnniSpvxSrcRedirectionVPVCSel OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        "The Called VPI/VCI value selection qualifier."
    ::= { pnniSpvxSrcRedirectionEntry 3 }

```

```

pnniSpvxSrcRedirectionCalledVpi OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        "The VPI to be used at the Called NI."
    ::= { pnniSpvxSrcRedirectionEntry 4 }

```

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pnniSpvxSrcRedirectionCalledVci OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The VCI to be used at the Called NI.”

::= { pnniSpvxSrcRedirectionEntry 5 }

pnniSpvxSrcRedirectionFwdUpcKey OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The forward UPC traffic contract key.

This key must be defined in the upcContractTable.”

::= { pnniSpvxSrcRedirectionEntry 6 }

pnniSpvxSrcRedirectionBckUpcKey OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The Backward UPC traffic contract key.

This key must be defined in the upcContractTable.”

::= { pnniSpvxSrcRedirectionEntry 7 }

pnniSpvxSrcRedirectionFwdQosClass OBJECT-TYPE

SYNTAX INTEGER {

class0 (1),

class1 (2),

class2 (3),

class3 (4),

class4 (5)

}

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

MAX-ACCESS read-create
STATUS current
DESCRIPTION
 "The requested quality of service in
 the forward (calling to called) direction."
::= { pnniSpvxSrcRedirectionEntry 8 }

pnniSpvxSrcRedirectionBckQosClass OBJECT-TYPE
SYNTAX INTEGER {
 class0 (1),
 class1 (2),
 class2 (3),
 class3 (4),
 class4 (5)
}

MAX-ACCESS read-create
STATUS current
DESCRIPTION
 "The requested quality of service in
 the backward (called to calling) direction."
::= { pnniSpvxSrcRedirectionEntry 9 }

pnniSpvxSrcRedirectionName OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..32))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
 "The value of this object identifies the
 name that has been assigned."
::= { pnniSpvxSrcRedirectionEntry 10 }

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pnniSpvxSrcRedirectionQosIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The index for the QOS Class Expansion Table to be used.”

::= { pnniSpvxSrcRedirectionEntry 11 }

pnniSpvxSrcRedirectionRerouteStatus OBJECT-TYPE

SYNTAX INTEGER {
enabled (1),
disabled (2)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The status of the reroute function. If set to disabled (2), no rerouting will be attempted.”

DEFVAL { disabled }

::= { pnniSpvxSrcRedirectionEntry 12 }

pnniSpvxSrcRedirectionBackoffStatus OBJECT-TYPE

SYNTAX INTEGER {
enabled (1),
disabled (2)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The status of the backoff function. If set to disabled (2), directed dtls configured will be continually retried on failure.”

DEFVAL { enabled }

::= { pnniSpvxSrcRedirectionEntry 13 }

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pnniSpvxSrcRedirectionDtlTag OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“This value specifies an index into a table of DTLs,
the DTL entries in this table will be used to setup
the SPVC.”

::= { pnniSpvxSrcRedirectionEntry 14 }

pnniSpvxSrcRedirectionAutoDtlStatus OBJECT-TYPE

SYNTAX INTEGER {

enabled (1),

disabled (2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The status of the dynamic path selection function. If set
to disabled (2), auto path selection will not be used.”

DEFVAL { enabled }

::= { pnniSpvxSrcRedirectionEntry 15 }

Modifications done to PNNI SPVCC source side MIB.

--

-- PNNI SPVCC source-side definitions

--

pnniSpvcSrcTable OBJECT-TYPE

SYNTAX SEQUENCE OF PnniSpvcSrcEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“This table contains information about SPVCCs (Smart
Permanent Virtual Channel Connections) that have their source
at this switch.”

::= { q2931Group 3 }

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pnniSpvcSrcEntry OBJECT-TYPE
SYNTAX PnniSpvcSrcEntry
MAX-ACCESS not-accessible
STATUS current

pnniSpvcSrcSpvxRedirectionIndex OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-create
STATUS current
DESCRIPTION
 "The index of the Call Redirection information used
 for providing SPVCC resiliency."
::= { pnniSpvcSrcEntry 53 }

pnniSpvcSrcSpvxRedirectionDest OBJECT-TYPE
SYNTAX INTEGER {
 directed2primary (1),
 directed2secondary (2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The status of a resilient SPVCC indicating whether
 the primary destination or secondary destination is
 active at a given time."
::= { pnniSpvcSrcEntry 54 }

Modifications done to PNNI SPVPC source side MIB.

-- The source side table for configuring originating SPVPCs

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pnniSpvpcSrcTable OBJECT-TYPE

SYNTAX SEQUENCE OF PnniSpvpcSrcEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“This table contains information about SPVPCs (Smart Permanent Virtual Path Connections) that have their source at this switch. This table serves the same function that the pnniSpvcSrcTable serves for SPVCCs.”

::= { q2931Group 9 }

pnniSpvpcSrcEntry OBJECT-TYPE

SYNTAX PnniSpvpcSrcEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“A table entry containing source SPVPC {Smart Permanent Virtual Path Connection} information.”

INDEX { pnniSpvpcSrcIndex }

::= { pnniSpvpcSrcTable 1 }

PnniSpvpcSrcEntry ::= SEQUENCE {

pnniSpvpcSrcIndex	INTEGER,
pnniSpvpcSrcCallingPort	INTEGER,
pnniSpvpcSrcCallingVPI	Integer32,
pnniSpvpcSrcCalledAtmAddr	NsapAddr,
pnniSpvpcSrcCalledPort	Integer32,
pnniSpvpcSrcCalledVPVCSel	INTEGER,
pnniSpvpcSrcCalledVPI	INTEGER,
pnniSpvpcSrcCalledAssignedVPI	INTEGER,
pnniSpvpcSrcFwdUpcKey	INTEGER,
pnniSpvpcSrcBckUpcKey	INTEGER,
pnniSpvpcSrcSusceptClip	INTEGER,
pnniSpvpcSrcFwdQoSClass	INTEGER,
pnniSpvpcSrcBckQoSClass	INTEGER,
pnniSpvpcSrcLastFailCause	DisplayString,

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pnniSpvpcSrcRetryCount	Integer32,
pnniSpvpcSrcLastChangeTime	TimeTicks,
pnniSpvpcSrcStatus	INTEGER,
pnniSpvpcSrcName	OCTET STRING,
pnniSpvpcSrcRowStatus	RowStatus,
pnniSpvpcSrcRouteCost	Integer32,
pnniSpvpcSrcRerouteStatus	INTEGER,
pnniSpvpcSrcCallingDomain	Integer32,
pnniSpvpcSrcQosIndex	Integer32,
pnniSpvpcSrcPriority	Integer32,
pnniSpvpcSrcLastLocation	DisplayString,
pnniSpvpcSrcOldRouteCost	Integer32,
pnniSpvpcSrcDownReason	INTEGER,
pnniSpvpcSrcBackoffStatus	INTEGER,
pnniSpvpcSrcActiveDtlNodeIndex	Integer32,
pnniSpvpcSrcActiveDtlIndex	Integer32,
pnniSpvpcSrcDtlTag	Integer32,
pnniSpvpcSrcAutoDtlStatus	INTEGER,
pnniSpvpcSrcRGroupIndex	INTEGER,
pnniSpvpcSrcSecondaryVPI	Integer32,
pnniSpvpcSrcSpvxRedirectionIndex	Integer32,
pnniSpvpcSrcSpvxRedirectionDest	INTEGER
}	

	OBJECT-TYPE
pnniSpvpcSrcSpvxRedirectionIndex	
SYNTAX	Integer32
MAX-ACCESS	read-create
STATUS	current
DESCRIPTION	

“The index of the Call Redirection information used
for providing SPVPC resiliency.”

::= {pnniSpvpcSrcEntry 36 }

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pnniSpvpcSrcSpvxRedirectionDest OBJECT-TYPE
 SYNTAX INTEGER {
 directed2primary (1),
 directed2secondary (2)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The status of a resilient SPVPC indicating whether
 the primary destination or secondary destination is
 active at a given time."
 ::= { pnniSpvpcSrcEntry 37 }

Trap when a switchover from primary to secondary destination takes place.

pnniSpvccRedirectionSwover NOTIFICATION-TYPE
 OBJECTS {
 pnniSpvcSrcIndex,
 pnniSpvcSrcSpvxRedirectionDest,
 trapLogIndex }
 STATUS current
 DESCRIPTION
 "This trap is sent when a switch over of an SPVCC
 from primary to secondary (or vice-versa) takes place."
 ::= { atmSwitch 0 2029 }

pnniSpvpcRedirectionSwover NOTIFICATION-TYPE
 OBJECTS {
 pnniSpvpcSrcIndex,
 pnniSpvpcSrcSpvxRedirectionDest,
 trapLogIndex }

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

STATUS current

DESCRIPTION

“This trap is sent when a switch over of an SPVPC
from primary to secondary (or vice-versa) takes place.”

::= { atmSwitch 0 2030 }

The MIB for Source SPVC Call Resiliency Information. This table is used for pp
SPVCs only.

pnniSpvcSrcResiliencyTable OBJECT-TYPE

SYNTAX SEQUENCE OF pnniSpvcSrcResiliencyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“This table contains information about Source Resilient SPVCs
(Smart Permanent Virtual Circuits) that have their source
on this switch. This table is stores the Source Resiliency information,
which is used to poll the partner SPVC's status.”

::= {q2931Group 27 }

pnniSpvcSrcResiliencyEntry OBJECT-TYPE

SYNTAX pnniSpvcSrcResiliencyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

“A table entry containing source resilient SPVCC resilient
info.”

INDEX { pnniSpvcSrcResiliencyIndex }

::= { pnniSpvcSrcResiliencyTable 1 }

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```
pnniSpvcSrcResiliencyEntry ::= SEQUENCE {  
    pnniSpvcSrcResiliencyIndex      Integer32,  
    pnniSpvcSrcResiliencySigIf      Integer32,  
    pnniSpvcSrcResiliencySigIfVpi   Integer32,  
    pnniSpvcSrcResiliencyIlmiState  INTEGER,  
    pnniSpvcSrcResiliencyRole       INTEGER,  
    pnniSpvcSrcResiliencyDeadSilenceTimer  INTEGER,  
    pnniSpvcSrcResiliencyName       DisplayString,  
}
```

```
pnniSpvcSrcResiliencyIndex      OBJECT-TYPE  
    SYNTAX      Integer32  
    MAX-ACCESS  read-create  
    STATUS      current  
    DESCRIPTION  
        "The value of this object uniquely identifies source  
        resilient SPVCC Call information."  
    ::= { pnniSpvcSrcResiliency 1 }
```

```
pnniSpvcSrcResiliencySigIf      OBJECT-TYPE  
    SYNTAX      INTEGER  
    MAX-ACCESS  read-write  
    STATUS      current  
    DESCRIPTION  
        "The value of this object identifies the  
        signaling vpi that is on the atmif connecting this switch to the  
        partner switch."  
    ::= { pnniSpvcSrcResiliencyEntry 2 }
```

```
pnniSpvcSrcResiliencySigIfVpi   OBJECT-TYPE  
    SYNTAX      Integer32  
    MAX-ACCESS  read-write  
    STATUS      current  
    DESCRIPTION  
        "The value of this object identifies the  
        signaling vpi that is on the atmif connecting this switch to the  
        partner switch."  
    ::= { pnniSpvcSrcResiliencyEntry 3 }
```

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pnniSpvcSrcResiliencyIlmiState OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The value of this object identifies the
ILMI oper status for the signaling interface on which ILMI
queries are done.”

::= { pnniSpvcSrcResiliencyEntry 4 }

pnniSpvcSrcResiliencyRole OBJECT-TYPE

SYNTAX INTEGER { primary (1),
Secondary (2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The value of this object identifies the
role of the source resilient SPVC using this index.”

::= { pnniSpvcSrcResiliencyEntry 5 }

pnniSpvcSrcResiliencyDeadSilenceTimer OBJECT-TYPE

SYNTAX INTEGER { enable (1),
Disable (2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The value of this object indicates whether the Dead Silence
timer counting is enabled for SPVCs associated with this or
not”.

::= { pnniSpvcSrcResiliencyEntry 6 }

pnniSpvcSrcResiliencyName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..31))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The value of this object identifies the
name that has been assigned.”

::= { pnniSpvcSrcResiliencyEntry 7 }

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Modifications done to PNNI SPVCC source side MIB.

--
-- PNNI SPVCC source-side definitions
--

Similar additions will be done to pnniSpvcAltSrcTable

pnniSpvcSrcTable OBJECT-TYPE
SYNTAX SEQUENCE OF pnniSpvcSrcEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "This table contains information about SPVCCs (Smart
 Permanent Virtual Channel Connections) that have their source
 at this switch."
 ::= { q2931Group 3 }

pnniSpvcSrcEntry OBJECT-TYPE
SYNTAX pnniSpvcSrcEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "A table entry containing source SPVCC {Smart
 Permanent Virtual Channel Connections) information."
INDEX { pnniSpvcSrcIndex }
 ::= { pnniSpvcSrcTable 1 }

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```
pnniSpvcSrcEntry ::= SEQUENCE {  
    pnniSpvcSrcIndex                Integer32,  
    pnniSpvcSrcCallingPort          Integer32,  
    pnniSpvcSrcCallingVPI           Integer32,  
    pnniSpvcSrcCallingVCI           Integer32,  
    pnniSpvcSrcCalledAtmAddr        NsapAddr,  
    pnniSpvcSrcCalledPort           Integer32,  
    pnniSpvcSrcCalledVPVCSel        INTEGER,  
    pnniSpvcSrcCalledVPI            Integer32,  
    pnniSpvcSrcCalledVCI            Integer32,  
    pnniSpvcSrcCalledAssignedVPI    Integer32,  
    pnniSpvcSrcCalledAssignedVCI    Integer32,  
    pnniSpvcSrcFwdUpcKey            Integer32,  
    pnniSpvcSrcBckUpcKey            Integer32,  
    pnniSpvcSrcBearerClass          INTEGER,  
    pnniSpvcSrcTrafficType          INTEGER,  
    pnniSpvcSrcTimingReq            INTEGER,  
    pnniSpvcSrcSusceptClip          INTEGER,  
    pnniSpvcSrcFwdQoSClass          INTEGER,  
    pnniSpvcSrcBckQoSClass          INTEGER,  
    pnniSpvcSrcTransitNetSel        TransitNetwork,  
    pnniSpvcSrcLastFailCause        DisplayString,  
    pnniSpvcSrcRetryCount           Integer32,  
    pnniSpvcSrcLastChangeTime       TimeTicks,  
    pnniSpvcSrcStatus               INTEGER,  
    pnniSpvcSrcName                 OCTET STRING,  
    pnniSpvcSrcEntryStatus           EntryStatus,  
    pnniSpvcSrcRouteCost             Integer32,  
    pnniSpvcSrcDtlIndex             Integer32,  
    pnniSpvcSrcActiveDtlIndex        Integer32,  
    pnniSpvcSrcRerouteStatus         INTEGER,  
    pnniSpvcSrcCallingDomain         Integer32,  
    pnniSpvcSrcQosIndex              Integer32,  
    pnniSpvcSrcDtlIndex1             Integer32,  
    pnniSpvcSrcDtlIndex2             Integer32,  
    pnniSpvcSrcDtlIndex3            Integer32,  
}
```


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pnniSpvcSrcDtlIndex4	Integer32,
pnniSpvcSrcDtlWeight1	Integer32,
pnniSpvcSrcDtlWeight2	Integer32,
pnniSpvcSrcDtlWeight3	Integer32,
pnniSpvcSrcDtlWeight4	Integer32,
pnniSpvcSrcBackoffStatus	INTEGER,
pnniSpvcSrcPriority	Integer32,
pnniSpvcSrcLastLocation	DisplayString,
pnniSpvcSrcOldRouteCost	Integer32,
pnniSpvcSrcDownReason	INTEGER,
pnniSpvcSrcActiveDtlNodeIndex	Integer32,
pnniSpvcSrcDtlTag	Integer32,
pnniSpvcSrcAutoDtlStatus	INTEGER,
pnniSpvcSrcRGroupIndex	INTEGER,
pnniSpvcSrcSecondaryVPI	Integer32,
pnniSpvcSrcSecondaryVCI	Integer32,
pnniSpvcSrcSPVCRedirectionIndex	Integer32,
pnniSpvcSrcSPVCRedirectionDest	INTEGER,
pnniSpvcSrcSPVCResiliencyIndex	Integer32,
pnniSpvcSrcSPVCResiliencyState	INTEGER,

}

pnniSpvcSrcSPVCResiliencyIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

“The index of the Call Resiliency information used
for providing Source SPVCC resiliency.”

::= { pnniSpvcSrcEntry 55 }

pnniSpvcSrcResiliencyState OBJECT-TYPE

SYNTAX INTEGER { active (1),
inhibited (2) }

MAX-ACCESS read

STATUS current

DESCRIPTION

“The value of this object identifies the
state of the source resilient SPVC.”

::= { pnniSpvcSrcEntry 56 }

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--
-- PNNI SPVxC Resiliency Configuration Parameters
--

pnniSpvxSrcResiliencyParamsTable OBJECT IDENTIFIER ::= { q2931Group 27 }

pnniSpvcSrcResiliencyParamsSpvccDeadSilenceInterval OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The time interval between two successive cell counting done on SPVCs before the SPVC source is declared dead, expressed in sec.”

DEFVAL { 5 }

::= { pnniSpvcSrcResiliencyParamsTable 1 }

pnniSpvcSrcResiliencyParamsSpvccPollingTimerInterval OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

“The time interval between two polls to check the status of partner SPVC on the partner switch, expressed in millisecs.”

DEFVAL { 1000 }

::= { pnniSpvcSrcResiliencyParamsTable 2 }

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

pnniSpvcSrcResiliencyParamsSpvccPollingNumSpvcs OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The no. of SPVCs polled per polling interval expressed in
SPVCs/Poll."
DEFVAL { 5 }
::= { pnniSpvcSrcResiliencyParamsTable 3 }

Signed and Sealed this

Twentieth Day of January, 2009



JON W. DUDAS
Director of the United States Patent and Trademark Office